

CLAIMS

1. (Amended) A multi-layer magnetic part, comprising:

a composite sheet obtained by applying a magnetic  
5 body paste to a substrate rendering the center and periphery  
thereof a magnetic pattern, and by applying a nonmagnetic body  
pattern to a substrate rendering a part thereof except the center  
and periphery a dielectric pattern comprising a nonmagnetic body;

a primary winding or secondary winding, or both such  
10 primary and secondary windings, provided on one face of the  
dielectric pattern and around the center;

a primary winding or secondary winding, or both such  
primary and secondary windings, provided on the other face of  
the dielectric pattern and around the center; and

15 a pair of magnetic sheets which are obtained by  
applying a magnetic body paste to a substrate and drying the paste  
and which hold the composite sheet and the primary and secondary  
windings from both sides and contact one another via the magnetic  
pattern.

20 2. The multi-layer magnetic part according to claim 1, wherein  
the composite sheet the center and periphery of which are a  
magnetic pattern and a part of which except the center and  
periphery is a dielectric pattern comprising a nonmagnetic body  
25 is inserted between the magnetic sheet and the primary or  
secondary winding.

3. (Amended) The multi-layer magnetic part according to claim  
1 or 2, wherein the composite sheet is stacked in a plurality  
30 of layers; and

through-holes connecting respectively a plurality of primary windings and a plurality of secondary windings located with the dielectric pattern of the composite sheets interposed therebetween are provided in the composite sheets.

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4. (Amended) The multi-layer magnetic part according to claim 1, 2, or 3, wherein the film thickness of the magnetic pattern and the film thickness of the dielectric pattern of the composite sheet are equal.

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5. (Amended) A method of fabricating the multi-layer magnetic part according to any of claims 1 to 5, comprising the steps of:

creating the magnetic sheet by applying a magnetic body paste to a substrate and drying the paste;

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creating the composite sheet separately by applying a nonmagnetic body paste to a substrate in the form of the dielectric pattern and applying a magnetic body paste to the substrate in the form of the magnetic pattern and drying the pastes;

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creating the primary and secondary windings by applying a conductor paste to the composite sheet or the magnetic sheet and drying the paste; and

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peeling the magnetic sheet and the composite sheet thus obtained from the substrate and stacking the magnetic sheet and composite sheet and pressurizing same to produce a stacked body, and firing the stacked body.